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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,843	09/26/2003	Jeffrey D. Brady	44805-0001 DI1	1630
7590 05/17/2005			EXAMINER	
CROWELL & MORING LLP			HAQ, SHAFIQUL	
INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 WASHINGTON, DC 20004-2595			ART UNIT	PAPER NUMBER
			1641	

DATE MAILED: 05/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/672,843	BRADY ET AL.			
		Examiner	Art Unit			
		Shafiqul Haq	1641			
	- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[1) Responsive to communication(s) filed on					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
5)□ 6)⊠ 7)□	 ✓ Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ☑ Claim(s) 1-28 is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 					
Applicat	ion Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	nt(s)					
	ce of References Cited (PTO-892)	4) Interview Summary				
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 9/26/2003.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			

Art Unit: 1641

DETAILED ACTION

- 1. NPL and other documents cited in sheet 2 of 2 in IDS have not been considered because copies of those documents were not provided. In order to be in compliance with MPEP 609, III, A (2), applicants must provide copies of all of the references cited in the IDS. These references will become part of the official file of this application. Upon receipt of the missing documents, they will be considered by the examiner when preparing the next office action and a signed copy of form PTO-1449 will be provided with the next office action.
- Although specific claims are cited and discussed in the rejection below, these
 rejections are also applicable to all other claims in which the noted
 problems/language occur.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for attachment of biotin labeled derivatizing agent to solid support, does not reasonably provide enablement for attachment of other labeled derivatizing agent (such as labeled with fluorescein or enzyme) to solid support. The specification does not enable any person skilled in the art to which it pertains, or with

which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

The "labeled derivatizing agent" in claim 1 encompasses derivatizing agents labeled with various label such as avidin/biotin, enzyme, fluorescein, cyanine etc. (see specification, page 7, lines 1-3).

The specification provides guidance and working examples biotin labeled derivatizing agent for attachment to solid support (see specification, page 23), but there is no enablement in the specification for attachment of other labeled derivatizing agent to solid support.

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 1-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. The phrase "optionally labelled derivatizing agent" in claim 1 and 12 is not a positive recitaiton and thus it is unclear whether the labelled derivatizing agent is a required component of the claimed invention. It is also unclear what is encompassed by the term "derivatizing agent" (i.e the nature/structure of the derivatizing agent).
- 8. In claim 1 it is not clear what is encompassed by the term "binding agent".
- 9. The term "able to" in claim 1 is not a positive recitation and thus is indefinite.

- 10. Claim 1.ii) and 12 recites the method of a determining the amount of bound biological compound, but, since the claim do not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced. The claim is incomplete for not providing any steps whereby "determining the amount" is correlated with the "detection of detectable molecule or label".
- 11. Claims 1, 2 and 19 are indefinite because it is not clear what is encompassed by the term "detectable molecule".
- 12. With respect to claims 2-3, 19 and 24, the terms "R² is an alkyl group", "R⁴ is a heteroalkyl group" are inconsistent with non-terminal nature of the groups "R²" and "R⁴".
- 13. In claims 2 it is unclear what the chemical nature and scope of the term "linking group" which defines the variable "A" is meant to include.
- 14. With respect to claim 10, the definition for the variable "A" is confusing as it is not clear whether 'detectable molecule" (i.e. first monoclonal antibody) is part of A or B is the detectable molecule. Variable "B" is not defined.
- 15. The term "solid support" in Claims 1, 12, 16-19 and 22 is unclear and therefore indefinite as this is a relative term and may include numerous solid support such as polystyrene, polyethylene, sephades, sepharose, silica gel, glass etc. Therefore, the undefined "solid support" renders the claims obscure in scope.
- 16. With respect to claims 16 and 19, it is unclear what is encompassed by the terms

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"first partner" and "second partner" as the term may include various binding partners

such as antigen-antibody, receptor-ligand, avidin-biotin etc. Therefore, the undefined

"first partner" and "second partner" render the claims obscure in scope.

Conclusion

17. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shafiqul Haq whose telephone number is 571-272-

6103. The examiner can normally be reached on 7:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long V. Le can be reached on 571-272-0823. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SHAFIQULHAQ

EXAMINER

ART UNIT 1641

Mary E. CEPERLEY

PRIMARY EXAMINER

ART UNIT 1641